	T-2		in
	Application No.	Applicant(s)	•
Notice of Allowability	10/759,809	HE ET AL.	
	Examiner	Art Unit	
	Tu-Tu Ho	2818	
The MAILING DATE of this communication appeal claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this applion other appropriate communication IGHTS. This application is subject to	plication. If not include will be mailed in due	ed course. <b>THIS</b>
1. This communication is responsive to Papers filed 01/16/20	<u>004</u> .		
2. ☑ The allowed claim(s) is/are <u>1-20</u> .		(	
3. $igotimes$ The drawings filed on <u>16 January 2004</u> are accepted by th	e Examiner.		
<ul> <li>4. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some* c) None of the:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No.</li> <li>3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* Certified copies not received:</li> <li>Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.</li> <li>THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.</li> <li>5. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.</li> <li>6. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.</li> <li>(a) including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached</li> <li>1) hereto or 2) to Paper No./Mail Date</li> <li>(b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date</li> <li>Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).</li> <li>7. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the</li> </ul>			
attached Examiner's comment regarding REQUIREMENT  Attachment(s)  1. ☑ Notice of References Cited (PTO-892)  2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)  3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/O Paper No./Mail Date	5. ☐ Notice of Informal P 6. ☐ Interview Summary Paper No./Mail Dat	atent Application (PT0 (PT0-413), se nent/Comment	·
Dăvid Nelms Supervisory Patent Examiner			
Technology Center 2800			

## **DETAILED ACTION**

## Allowable Subject Matter

1. Claims 1-20 are allowable over the prior art of record.

The following is an examiner's statement of reasons for allowance: The prior art of record fails to teach or render obvious a memory array and a method of fabricating thereof having all exclusive limitations as recited in claims 1, 8, and 15, comprising two isolation regions separated by a distance and situated in a substrate, a trench formed between the two isolation regions, the trench having trench sidewalls and a trench bottom in the substrate, a tunnel oxide layer located between the two isolation regions, the tunnel oxide being situated on the trench sidewalls and the trench bottom, a channel region situated underneath the tunnel oxide layer, the channel region extending along the trench sidewalls and the trench bottom, the channel region having an effective width corresponding to a height of the trench sidewalls, and the effective width being greater than the distance separating the two isolation regions.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Application/Control Number: 10/759,809 Page 3

Art Unit: 2818

## Conclusion

2. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Copies of the references are not being furnished with this Office Action per MPEP

§ 707.05(a).

a. U.S. Patent 6,462,373 to Shimizu et al. discloses a tapered-shape floating gate

between two isolation regions.

b. U.S. Patent 6,583,060 to Trivedi discloses a dual-depth trench isolation region.

3. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Tu-Tu Ho whose telephone number is (571) 272-1778. The

examiner can normally be reached on 6:30 am - 5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, DAVID NELMS can be reached on (571) 272-1787. The fax phone number for the

organization where this application or proceeding is assigned is (703) 872-9306.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Tu-Tu Ho

September 07, 2004

Supervisory Patent Examiner Technology Center 2800